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## SAE Technical Papers

**Title:** Cruising the Information Super Highway Via the Automobile  
**Document Number:** 970259

**Author(s):**

Leo Lanctot - Ford Motor Co.  
Ron Belisle - Ford Motor Co.

**Abstract:**

This paper proposes to utilize the Automobiles Entertainment Audio and Cellular Phone Systems as an information terminal to access the Information Super Highway better known as the WorldWide Web. As society moves to an ever increasing information-based technology, there will be an ever expanding need to provide new ways and means of allowing access to the data on the WorldWide Web and Internet from many various locations and at a variety of different times.

The authors recognize that rather large amounts of data and research have conducted and presented relative to obtaining information from and across the WorldWide Web. Additionally, much work has been expended in the development of enhanced Driver Information Systems within the Automotive Industry.

This paper explores a means of coupling both of these technologies together in a practical way that would enable the Automobile's Entertainment System to take on an additional role in providing a timely access to the needed information of the WorldWide Web.

The paper does not propose an exact design nor does it expand upon the technical specifications of the work mentioned above. However, the authors feel that the approach defined herein does answer many of the requirements necessary to bring this Access of the Information Highway to a practical end

**File Size:** 770K

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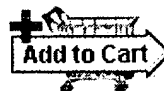
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## SAE Technical Papers

**Title:** Communication and Information Systems-A Comparison of Ideas, Concepts and Products  
**Document Number:** 2000-01-0810

**Author(s):**  
 Michael Wurtenberger - BMW AG

**Abstract:**  
 How can car manufacturers, which are primarily mechanical engineers, become software specialists? This is a question of prime importance for car electronics in the future. Modern vehicles offer a large number of electronic and software-based functions to achieve a high level of safety, fuel economy, comfort, entertainment and security which are developed under pressure of regulations, of consumers needs and of competitive time-to-market aspects. This contribution draws a picture, what could be important in future for in-car communication and information systems in terms of development process, HW & SW architectures, partnerships in automotive industry and security of industrial properties. For this purpose the automotive development is reviewed and actual examples of system designs are given.

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**Title:** Vehicle Navigation and Information Systems in Europe--An Overview  
**Document Number:** 901141

**Author(s):**  
Wadym E. Suchowskyj - Robert Bosch GmbH

**Abstract:**  
Traffic information through FM broadcasting stations is a well-established driver information medium in Europe. Ongoing developments will result in an automatic and digitized information service that will interact with in-vehicle driver information systems. European research programs on route guidance systems, automatic traffic detection means as well as existing vehicle navigation systems are going to converge toward an integrated system approach for efficient traffic management.

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**Title:** Driver Information Systems: Whats Next  
**Document Number:** 912856

**Author(s):**  
Christopher Querlaee - MVA Systematica

**Abstract:**

The paper provides an overview of some of the key technological issues and market constraints affecting the growth of driver information and navigation systems in the short to medium term. It covers trends in relevant technologies, generic markets for driver information systems, technical constraints on product development, issues affecting user demand, directions of growth, and identifies some key aspects for further analysis.

Two particular issues are raised. The first relates to the need to treat driver information systems as subscriber services, and the other notes the expected entry of hand-held navigation and communication products to the market.

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## SAE Technical Papers

**Title:** Information Services for Greater Driving Enjoyment  
**Document Number:** 980614

**Author(s):**

Naoki Honda - Nissan Motor Co. Ltd.  
Takuo Ishiwaka - Nissan Research Center  
Toru Takagi - Nissan Motor Co. Ltd.  
Masahiro Ishikawa - Nissan Motor Co. Ltd.  
Toshiharu Nakajima - Nissan Motor Co. Ltd.

**Abstract:**




A prototype navigation system with cellular phone access to an information service center was constructed and evaluated. Center personnel can also operate the system remotely, in addition to providing traffic information and information for more enjoyable travel. Real-time conversation with a center operator is also possible. The system was rated positively by most of the subjects, especially the real-time voice service. This paper describes the car navigation market and cellular phone market in Japan, the system configuration, evaluation results and possible solutions to problems in the system. It also touches on the outlook for future car navigation systems and information services.

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